

PRODUCT BULLETIN
GYPSUM PRODUCTS

GYPSUM BOARD
5/8" NULL-A-FIRE (U.L.)
TYPE X

BULLETIN NO: B-6
DATE: 4/1/77
PAGE: 1 of 2

APPROVALS:

ASTM C36

CANCELS: B-6
DATE: 9/12/75

PRODUCING PLANTS: Long Beach, Antioch, Seattle

CORE FORMULATION (Lbs./MSF):

| | | |
|---------------------|-----------|-------------|
| Board Stucco | (S-1) | 1525 - 1800 |
| Paper Fiber | (B-G-1) | 10 - 15 |
| Vermiculite Ore | (RM-B-28) | 23 - 26 |
| Glass Fiber | (B-G-1) | 3.8 - 4.2 |
| Starch | (RM-B-11) | 9.0 - 12.5 |
| - with sanders | | 6 - 10 |
| Dextrose | (RM-B-3) | 0 - 3 |
| Core Foaming Agent | (B-G-1) | 0.2 - 1.4 |
| Lignin - dry powder | (B-G-1) | 2.5 - 4.0 |
| - liquid | | 5.0 - 8.0 |
| End Trim | (B-G-1) | 20 - 40 |
| Potassium Sulfate | (B-G-1) | 0 - 1 |
| Retarder | (B-G-1) | 0 - 0.5 |
| Hydrated Lime | (RM-P-3) | 0 - 1.0 |
| Boric Acid | (B-G-1) | 0 - 1.0 |

Note: Formula shall conform to U.L. Follow-Up Procedure R3543, Vol 1, Sec. 1.

Paper Liners: (RM-B-1) Use Grade #7001 Manila and Grade #7002 Greyback for face and back paper respectively, except for Partition Board. Use Grade #7010 Partition Board Manila and Grade #7013 Partition Board Greyback for face and back paper respectively on all 5/8" board manufactured for use in partitions.

OPERATING SPECIFICATIONS: Refer to Product Bulletin B-G-2 for General Operating Specifications.

| | |
|---------------------------------|-----------|
| Slurry Slump (inches) | 4 1/2 - 9 |
| Slurry Setting Time (minutes) | 2 - 4 3/4 |
| Wet Slurry Weight (lbs/cu. ft.) | 64 - 70 |
| Wet Compressive Strength (psi) | 175 - 250 |

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PRODUCT SPECIFICATIONS: Refer to Product Bulletin B-G-4 for General Finished Product Specifications.

| | Acceptance Limits | | Control Values | | |
|----------------------|-------------------|------|----------------|------|------|
| | Min. | Max. | Min. | Std. | Max. |
| Wet Weight (lbs/MSF) | | | 3050 | | 3500 |

TAKE-OFF TESTS

| | | | | | |
|--|------------------|-------|---------------------|-------|-------|
| Dry Weight (lbs/MSF) | 2080 | 2300 | 2130 | 2150 | 2300 |
| Evaporation Loss | | | 900 | | 1200 |
| Thickness, avg. (inch) | 0.609 | 0.641 | 0.609 | 0.615 | 0.625 |
| Thickness, indiv. rdg. (inch) | +0.010 from avg. | | +0.010 from average | | |
| Twist Test, tested hot face and back (inch) | | | 0 | 0 | 2 |
| End Peel, tested @ 1-2 hours face and back (inch) | | | 0 | 0 | 1 |
| Bond Test, tested @ 1-2 hours face and back (inch) | | 2 | 0 | 0 | 1 |
| Falling Ball Impact (inch) | | | 0.020 | | 0.050 |
| Edge Hardness (lbs) | 8 | | 10 | 14 | 18 |

STANDARD CONDITIONED SAMPLE TESTS

| | | | | | |
|---------------------------|------|------|------|------|------|
| Flexural Strength (lbs) | | | | | |
| Across | 180 | | 180 | 190 | |
| Parallel | 62 | | 62 | 65 | |
| Deflection @ Break (inch) | | | | | |
| Across | 0.25 | | 0.25 | 0.30 | |
| Parallel | 0.20 | | 0.20 | 0.25 | |
| Punch Test | 600 | 1000 | 700 | | 1000 |
| End Peel after Sawing | | 1 | | 0 | 1/2 |
| Twist Test | | | | | |
| face and back | | 2 | | 0 | 1 |
| High Humidity Bond (inch) | | | | | |
| face and back | | 1 | | 0 | 1 |

PRODUCT IDENTIFICATION

Print on one taper area on face of tapered edge board:

5/8" NULL-A-FIRE TYPE X X 5/8" NULL-A-FIRE TYPE X

On the back side of 24" and 48" board, the U.L. design data shall be printed near the edge opposite the code. No face or back U.L. marking on 30" board.